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Digital Object Identifier 10.1109/ICNICONSMCL.2006.164

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Zabian, A.; Bonuccelli, M.A.;
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1   Performance Evaluation of a File Repair Procedure Based on a Combination of MBMS and Unicast Bearers
Thorsten Lohmar, Zhaoyi Peng, Petri Mahonen
June 2006 **Proceedings of the 2006 International Symposium on on World of Wireless, Mobile and Multimedia Networks WOWMOM '06**
Publisher: IEEE Computer Society
Full text available: 📄 pdf(350.62 KB)   Additional Information: full citation, abstract, index terms

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2   A parallel hill climbing algorithm for pushing dependent data in clients-providers-servers systems
Francisco Javier Ovalle-Martínez, Julio Solano González, Ivan Stojmenović
August 2004 **Mobile Networks and Applications**, Volume 9 Issue 4
Publisher: Kluwer Academic Publishers
Full text available: 📄 pdf(169.94 KB)   Additional Information: full citation, abstract, references, index terms

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Amotz Bar-Noy, Joseph Naor, Baruch Schieber
September 2003 **Wireless Networks**, Volume 9 Issue 5
Publisher: Kluwer Academic Publishers
Full text available: 📄 pdf(149.29 KB)   Additional Information: full citation, abstract, references, citings, index

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Keywords: broadcast disks, clients-providers-servers, de-randomization, scheduling

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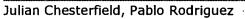
Publisher: ACM Press

Full text available: pdf(787.74 KB)   Additional Information: full citation, abstract, references, citings, index terms

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5 Mobile services: DeltaCast: efficient file reconciliation in wireless broadcast systems   ▃

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7 Streets of consensus under unknown unreliable network   ▃

S. C. Wang, M. L. Chiang, K. Q. Yan, K. F. Jea

October 2005 **ACM SIGOPS Operating Systems Review**, Volume 39 Issue 4
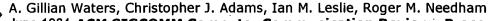**Publisher:** ACM Press
Full text available: 📄 pdf(3.16 MB)   Additional Information: full citation, abstract, references, index terms

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Keywords: back propagation network, byzantine agreement, consensus, distributed system, fault-tolerance

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Publisher: ACM Press

Full text available: 📄 pdf(483.80 KB)   Additional Information: full citation, abstract, references, citings, index terms

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Publisher: ACM Press
Full text available: 📄 pdf(403.97 KB)   Additional Information: full citation, abstract, references, index terms

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conceptual semantic annotation of broadcast news. First low quality transcri ...

Keywords: Web search, automatic speech recognition, key-phrase extraction, media archiving, multimedia, natural language processing, semantic Web, semantic annotation, topical segmentation

11   Synopsis - Books and Software: iTV handbook: technologies & standards
Eddie Schwalb
April 2004 **Computers in Entertainment (CIE)**, Volume 2 Issue 2
Publisher: ACM Press
Full text available: pdf(335.60 KB)   Additional Information: full citation, abstract, index terms

Interactive television (iTV) is an evolutionary merging of digital TV and the internet. iTV technology offers new powerful ways for consumers to interact with content and service providers. In Europe, iTV has gained significant traction during the turn of the century. For example, about 500,000 viewers signed up for SkyDigital's email service during 2000. In another example, Nickelodeon's "Watch Your Own Week" voting application was available to SkyDigital viewers during Oct 22-27 2001. While on ...

Keywords: QuickTime, avi, broadcast, compression, digital tv, gif, interactive tv, internet, media streaming, mp3, network file system, zip

12   Data Broadcasting Software Architecture supporting Real-Time Caching and Monitoring in Interactive TV
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Publisher: IEEE Computer Society
Full text available: Publisher Site   Additional Information: full citation, abstract, index terms

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13   Invited paper: Middleware and web services for the collaborative information portal of NASA's Mars exploration rovers mission
Elias Sinderson, Vish Magapu, Ronald Mak
October 2004 **Proceedings of the 5th ACM/IFIP/USENIX international conference on Middleware Middleware '04**
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(428.63 KB)   Additional Information: full citation, abstract, references

We describe the design and deployment of the middleware for the Collaborative Information Portal (CIP), a mission critical J2EE application developed for NASA's 2003 Mars Exploration Rover mission. CIP enabled mission personnel to access data and images sent back from Mars, staff and event schedules, broadcast messages and clocks displaying various Earth and Mars time zones. We developed the CIP middleware in less than two years time using cutting-edge technologies, including EJBs, servlets, JDB ...

14   Editorial zone: Large scale content distribution protocols
Christoph Neumann, Vincent Roca, Rod Walsh

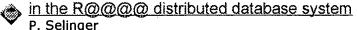October 2005 **ACM SIGCOMM Computer Communication Review**, Volume 35 Issue 5
Publisher: ACM Press
Full text available: 📄 pdf(207.06 KB)   Additional Information: full citation, abstract, references, index terms

> This paper introduces large scale content distribution protocols, which are capable of scaling to massive numbers of users and providing low delay end-to-end delivery. Delivery of files and static objects is described, with real-time content streaming being outside the scope of this paper. The focus is on solutions provided by the IETF Reliable Multicast Transport Working Group. More precisely, the paper explains FLUTE, ALC and the associated building blocks. Then it discusses how these componen ...

15 State of the art issues in distributed databases (Panel session): Site autonomy issues in the R@@@@ distributed database system
P. Selinger
January 1981 **Proceedings of the ACM '81 conference**
Publisher: ACM Press
Full text available: 📄 pdf(104.03 KB)   Additional Information: full citation, abstract, index terms

> It is desirable to have a Distributed Database Management System (DDBMS) whose behavior and control is as identical as possible to that used in single site database management systems. We call this notion site autonomy. Preserving the autonomy of sites which join a DDBMS network is essential to the peace of mind of its managers and users, and more technically, is essential in an environment where sites and communication lines fail. To achieve resilience to failures of ...

16 A flexible system call interface for interprocessor communication in a distributed memory multicomputer
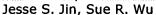Maria D. Maggio, David W. Krumme
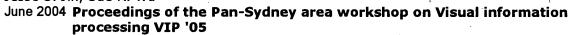April 1991 **ACM SIGOPS Operating Systems Review**, Volume 25 Issue 2
Publisher: ACM Press
Full text available: 📄 pdf(809.69 KB)   Additional Information: full citation, abstract, index terms

> The Multifaceted Communication System for the distributed memory NCUBE is an interprocessor communication system that supports many features useful for application programs: asynchronous, partially and fully synchronous calls in blocking and non-blocking modes, buffered and unbuffered transmissions, gather and scatter operations, broadcasting, a general pipe mechanism, and file operations. A major achievement of this design is the use of a single, consistent user interface. This paper describes ...

17 Screen capture: a vector quantisation approach
Jesse S. Jin, Sue R. Wu
June 2004 **Proceedings of the Pan-Sydney area workshop on Visual information processing VIP '05**
Publisher: Australian Computer Society, Inc.
Full text available: 📄 pdf(198.41 KB)   Additional Information: full citation, abstract, references, index terms

> Over the last couple of decades, more and more presentations are done on computer screen. The need to store or broadcast such presentation efficiently is in high demand across different application areas. This paper proposes a screen capture representation called vector quantisation. This system captures sequence of actions on a computer screen and minimizes its video file size for storage. It also minimizes bandwidth requirement if used for teleconferencing.
>
> **Keywords:** vector quantisation, video compression

18 Spatial computation

Mihai Budiu, Girish Venkataramani, Tiberiu Chelcea, Seth Copen Goldstein

October 2004 **ACM SIGARCH Computer Architecture News , ACM SIGPLAN Notices , ACM SIGOPS Operating Systems Review , Proceedings of the 11th international conference on Architectural support for programming languages and operating systems ASPLOS-XI**, Volume 32 , 39 , 38 Issue 5 , 11 , 5

Publisher: ACM Press

Full text available: pdf(573.00 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes a computer architecture, *Spatial Computation* (SC), which is based on the translation of high-level language programs directly into hardware structures. SC program implementations are completely distributed, with no centralized control. SC circuits are optimized for *wires* at the expense of computation units.In this paper we investigate a particular implementation of SC: ASH (Application-Specific Hardware). Under the assumption that computation is cheaper than co ...

Keywords: application-specific hardware, dataflow machine, low-power, spatial computation

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3   A parallel hill climbing algorithm for pushing dependent data in clients-providers- ▬
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    Francisco Javier Ovalle-Martínez, Julio Solano González, Ivan Stojmenović
    August 2004 **Mobile Networks and Applications**, Volume 9 Issue 4
    Publisher: Kluwer Academic Publishers
    Full text available: 🗎 pdf(169.94 KB)   Additional Information: full citation, abstract, references, index terms

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Keywords: data broadcasting, hill climbing algorithms

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September 2003 **Wireless Networks**, Volume 9 Issue 5
Publisher: Kluwer Academic Publishers

Full text available: <u>pdf(149.29 KB)</u>   Additional Information: <u>full citation, abstract, references, citings, index terms</u>

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October 2005 **ACM SIGOPS Operating Systems Review**, Volume 39 Issue 4
Publisher: ACM Press
Full text available: pdf(3.16 MB)   Additional Information: full citation, abstract, references, index terms

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Keywords: Web search, automatic speech recognition, key-phrase extraction, media archiving, multimedia, natural language processing, semantic Web, semantic annotation, topical segmentation

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> outside the scope of this paper. The focus is on solutions provided by the IETF Reliable
> Multicast Transport Working Group. More precisely, the paper explains FLUTE, ALC and
> the associated building blocks. Then it discusses how these componen ...

15 State of the art issues in distributed databases (Panel session): Site autonomy issues
in the R@@@@ distributed database system
P. Selinger
January 1981 **Proceedings of the ACM '81 conference**
Publisher: ACM Press
Full text available: pdf(104.03 KB)   Additional Information: full citation, abstract, index terms

> It is desirable to have a Distributed Database Management System (DDBMS) whose
> behavior and control is as identical as possible to that used in single site database
> management systems. We call this notion site autonomy. Preserving the autonomy of
> sites which join a DDBMS network is essential to the peace of mind of its managers and
> users, and more technically, is essential in an environment where sites and
> communication lines fail. To achieve resilience to failures of ...

16 A flexible system call interface for interprocessor communication in a distributed
memory multicomputer
Maria D. Maggio, David W. Krumme
April 1991 **ACM SIGOPS Operating Systems Review**, Volume 25 Issue 2
Publisher: ACM Press
Full text available: pdf(809.69 KB)   Additional Information: full citation, abstract, index terms

> The Multifaceted Communication System for the distributed memory NCUBE is an
> interprocessor communication system that supports many features useful for application
> programs: asynchronous, partially and fully synchronous calls in blocking and non-
> blocking modes, buffered and unbuffered transmissions, gather and scatter operations,
> broadcasting, a general pipe mechanism, and file operations. A major achievement of this
> design is the use of a single, consistent user interface. This paper describes ...

17 Screen capture: a vector quantisation approach
Jesse S. Jin, Sue R. Wu
June 2004 **Proceedings of the Pan-Sydney area workshop on Visual information
processing VIP '05**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(198.41 KB)   Additional Information: full citation, abstract, references, index terms

> Over the last couple of decades, more and more presentations are done on computer
> screen. The need to store or broadcast such presentation efficiently is in high demand
> across different application areas. This paper proposes a screen capture representation
> called vector quantisation. This system captures sequence of actions on a computer
> screen and minimizes its video file size for storage. It also minimizes bandwidth
> requirement if used for teleconferencing.
>
> **Keywords:** vector quantisation, video compression

18 Spatial computation

Mihai Budiu, Girish Venkataramani, Tiberiu Chelcea, Seth Copen Goldstein

October 2004 **ACM SIGARCH Computer Architecture News , ACM SIGPLAN Notices , ACM SIGOPS Operating Systems Review , Proceedings of the 11th international conference on Architectural support for programming languages and operating systems ASPLOS-XI**, Volume 32 , 39 , 38 Issue 5 , 11 , 5

Publisher: ACM Press

Full text available: pdf(573.00 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes a computer architecture, *Spatial Computation* (SC), which is based on the translation of high-level language programs directly into hardware structures. SC program implementations are completely distributed, with no centralized control. SC circuits are optimized for *wires* at the expense of computation units.In this paper we investigate a particular implementation of SC: ASH (Application-Specific Hardware). Under the assumption that computation is cheaper than co ...

Keywords: application-specific hardware, dataflow machine, low-power, spatial computation

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